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ADHESIVE COMPOSITION

PUB. NO.: 10-120983 [JP 10120983 A]  
PUBLISHED: May 12, 1998 (19980512)  
INVENTOR(s): TAKETAZU JUN  
HAYASHI HIROKI  
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APPLICANT(s): HITACHI CHEM CO LTD [000445] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-277723 [JP 96277723]  
FILED: October 21, 1996 (19961021)  
INTL CLASS: [6] C09J-004/06; C09J-115/00; H01L-021/52  
JAPIO CLASS: 14.7 (ORGANIC CHEMISTRY -- Coating Material Adhesives); 42.2 (ELECTRONICS -- Solid State Components)  
JAPIO KEYWORD: R124 (CHEMISTRY -- Epoxy Resins)

#### ABSTRACT

PROBLEM TO BE SOLVED: To obtain a solventless-type adhesive composition causing no reflow crack on semiconductor package.

SOLUTION: This adhesive composition comprises a total of 100 pts.wt. of an organic adhesive material composed of (a) 30-80 pts.wt. of a compound having polymerizable ethylenic carbon-carbon double bond, (b) 5-40 pts.wt. of a reactive elastomer and (c) 5-30 pts.wt. of a reactive compound capable of forming a resin by thermosetting, and 10-1,000 pts.wt. of a filler.

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05322223 \*\*Image available\*\*  
GAS TURBIN GENERATOR

PUB. NO.: 08-277723 [JP 8277723 A]  
PUBLISHED: October 22, 1996 (19961022)  
INVENTOR(s): KUMAKURA HIROTAKA  
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APPL. NO.: 07-081269 [JP 9581269]  
FILED: April 06, 1995 (19950406)  
INTL CLASS: [6] F02C-006/00; F02C-007/26; H02K-023/52; H02P-009/04  
JAPIO CLASS: 21.2 (ENGINES & TURBINES, PRIME MOVERS -- Internal Combustion); 43.1 (ELECTRIC POWER -- Generation)

ABSTRACT

PURPOSE: To set auxiliary machine driving voltage regardless of the voltage of a generator so as to stabilize engine performance quality by actuating a starting three-phase power converter as the switching part of an auxiliary machine driving circuit after the completion of start.

CONSTITUTION: When a gas turbine engine is started and the engine speed rises to the preset specified value, a switch 43 is turned off to terminate engine assist at the start time, and a relay 53 is switched to the terminal 54 side. The transistors 26a, 26b, 26d, 26e, 26f of a starting power converter 23 are then turned off, and the transistor 26c is changeover-controlled to supply a direct current of specified voltage to an auxiliary machine driving power circuit. When the inter-terminal voltage of a smoothing capacitor 55 in the auxiliary machine driving power circuit is judged to have risen higher than the voltage of a battery 41, a switch 42 is turned off to stop the driving of an auxiliary machine 38 by the battery 41. The auxiliary machine driving voltage can thereby be set appropriately regardless of the voltage of a generator 51.  
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